th•mann

DP-50

digital piano

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MUSIC IS OUR PASSION

user manual

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1 General notes

This user manual contains important information on safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to other users, be sure that they also receive this manual.

Our products are subject to a process of continuous development. We therefore reserve the right to make changes without notice.

Symbols and signal words

This section provides an overview of the symbols and signal words used in this user manual.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – high-voltage.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used for electronic sound generation using a piano keyboard. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety

DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.

DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.

DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

CAUTION!

Possible hearing damage

With loudspeakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment.

Do not operate the device permanently at a high volume level. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment.

CAUTION!

Risk of injury due to heavy weight

Due to the heavy weight of the device, at least two persons are required for transport and installation.

NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

NOTICE!

Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

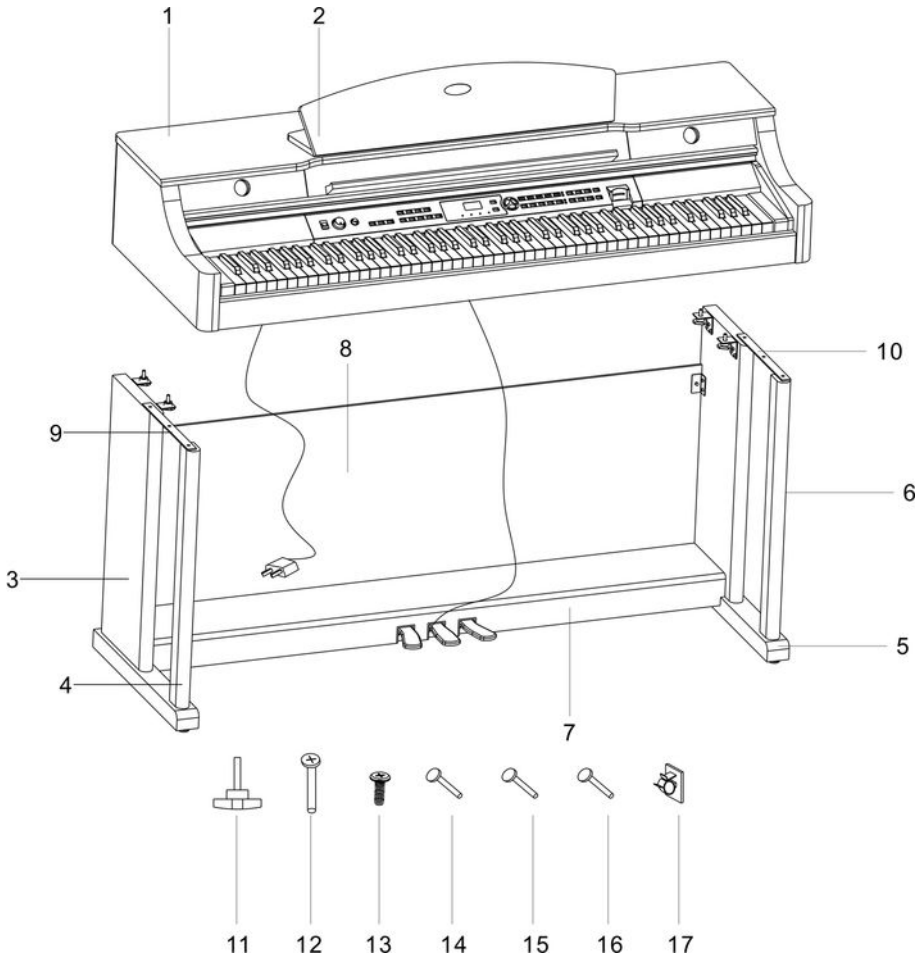
Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

3 Features

Special features of the digital piano:

- Keyboard: 88 weighted keys with hammer action, touch velocity in three steps.
- Operation: use the *[+]/[–]* buttons or the direct selection keys to select the desired function and parameter.
- Voices: 20 voices to choose from via 10 direct selection keys.
- Styles: 20 piano styles can be called using the *[+]/[–]* buttons.
- Self-learn function.
- Recording function: one song with two tracks.
- SD memory card: for midi file playback and storing recorded songs.
- Style control buttons: *[START/STOP]*, accompaniment volume *[ACC VOL]*, *[FILL A/FILL B]*.
- Function buttons with indicator: *[FILL A/FILL B]*, *[RECORD]*, *[PLAY/STOP]*, *[ACC VOL]*, *[SPLIT]*, *[DUAL]*, *[REVERB/CHORUS]*, *[TOUCH]*, *[METRO]*, *[(SD)STORE]*, *[(SD)PLAY/STOP]*, *[TRACK 1/SONG MELODY OFF]*, *[TRACK2]*, *[SCALE.]*
- Further function buttons: *[DUAL]*, *[SPLIT]*, *[REVERB/CHORUS]*, *[METRONOME]*, *[TRANSPOSE +/–]*, etc.
- Pedals: sustain pedal, soft pedal, sostenuto pedal.
- Connections: MIDI In/out, USB, headphones, AUX output.

4 Setup guide

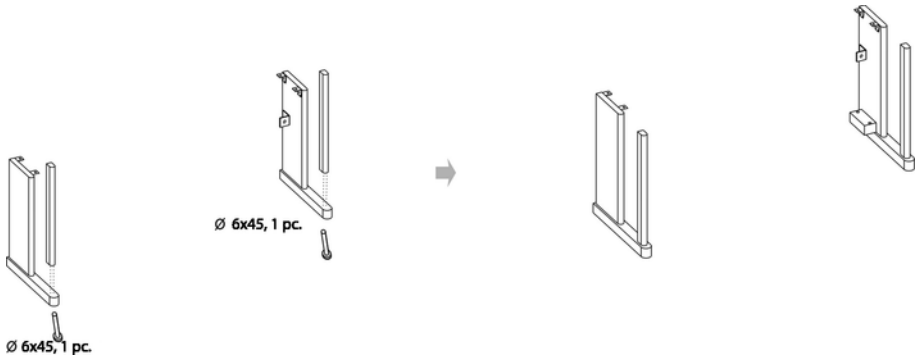


You need a Phillips screwdriver (not supplied) to assemble the digital piano. Open the packaging and please make sure prior to assembly that you have the full scope of delivery available as listed below.

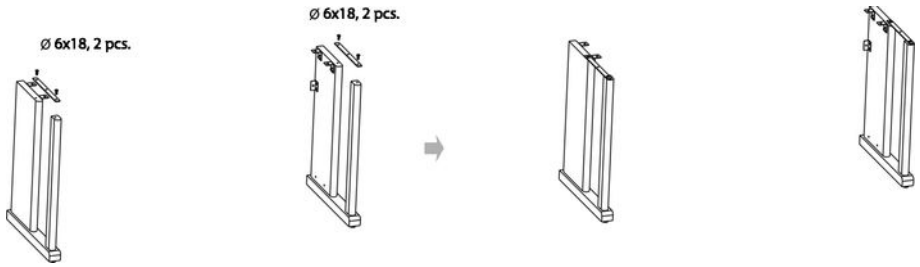
1. Piano housing	10. Right metal strip
2. Music stand	11. Handscrews (4 pcs.)
3. Left side panel	12. Screws 6 × 45 (2 pcs.)
4. Left front leg	13. Screws 6 × 18 (6 pcs.)
5. Right side panel	14. Screws 6 × 35 (4 pcs.)
6. Right Front leg	15. Screws 6 × 12 (2 pcs.)
7. Pedal box	16. Screws 4 × 15 (4 pcs.)
8. Back panel	17. Cable holder (2 pcs.)
9. Left metal strip	

Mechanical assembly

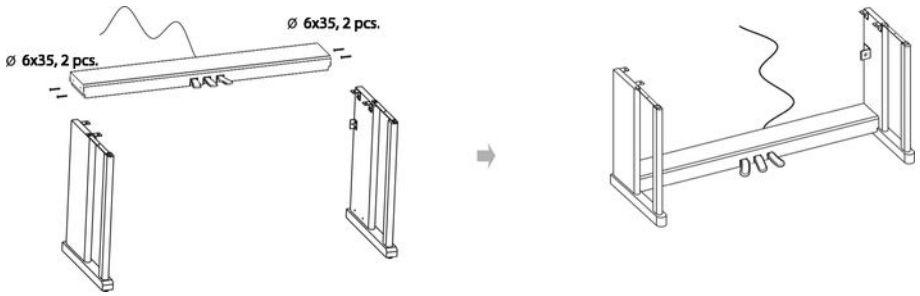
Proceed according to the figures.



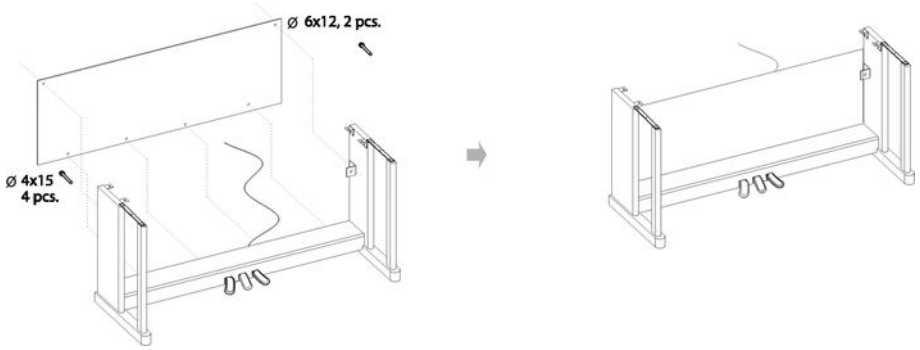
1. Use the 6 × 45 screws to attach the front legs to both sides panels.



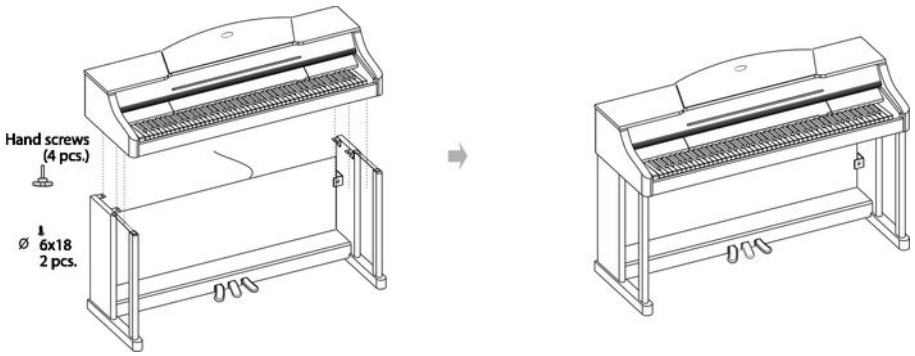
2. Use the 6 × 18 screws to attach the metal strips to both side panels.



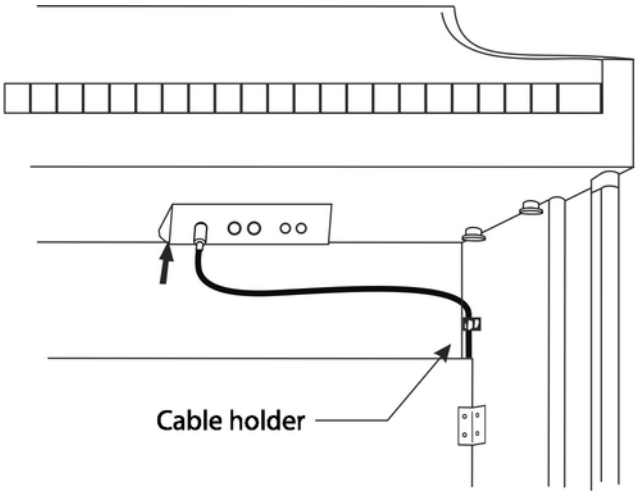
3. Put the pedal box between the two side panels and screw the parts together using the 4 screws (6 × 35, 2 pcs. per side).



4. Use two screws 6 × 12 and four screws 4 × 15 to attach the rear panel to the base frame that you have assembled in step 3.



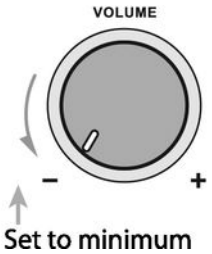
5. Place the piano case on the base frame. Then fix the housing using the four handscrews and two screws 6 × 18.



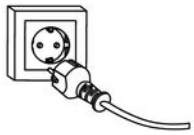
6. Connect the cable from the pedal box to the *'PEDAL'* socket on the rear panel of the unit. Stick one of the cable holder on the inside of the side panel and attach the pedal cable to it.

Mains connection

1. Make sure that the piano is switched off before connecting the device to the power grid or disconnecting it.



2. Turn the volume control down to the left stop.



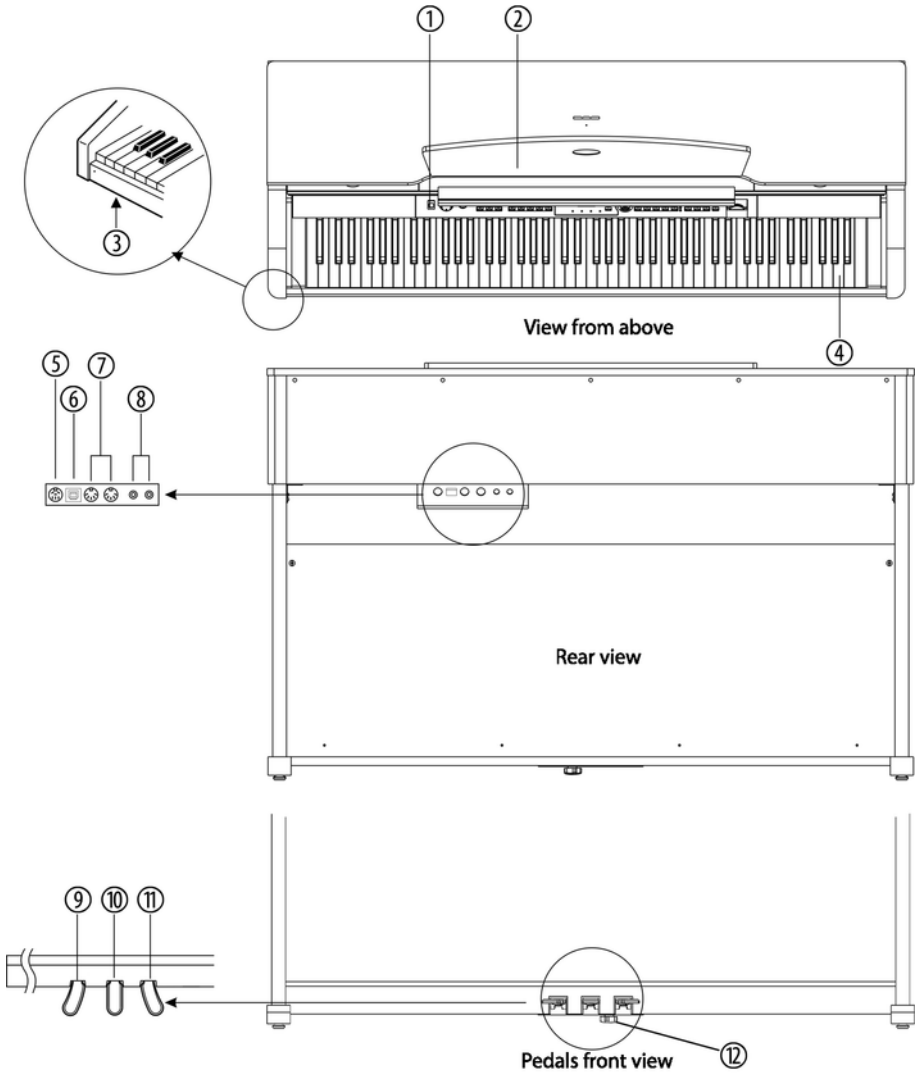
3. Connect the mains cable to an AC 230 V power wall outlet.

4. Now you can turn on the device.

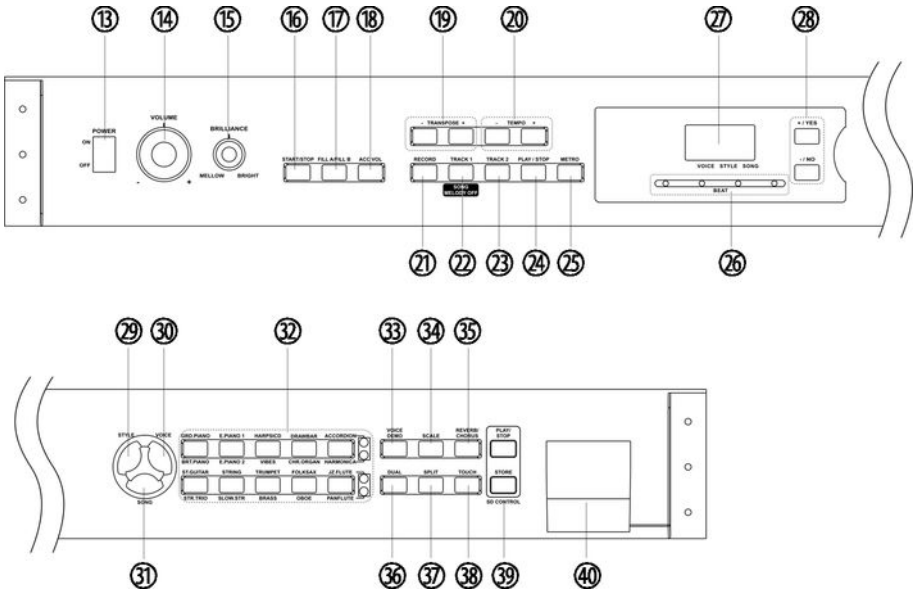
If the piano is not in use or when a thunder-storm threatens, disconnect the unit from the mains to ensure safety.

5 Operating elements and connections

General



1. Control panel	7. MIDI IN/OUT port
2. Music stand	8. AUX output
3. Headphones socket	9. Soft pedal
4. Piano keyboard	10. Sostenuto pedal
5. Pedal cable connection	11. Sustain pedal
6. USB port	12. Pedals

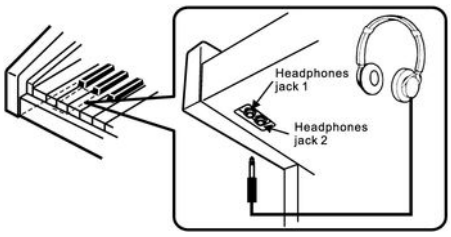


13	*[POWER]*
14	Rotary control *[VOLUME]* to adjust the volume.
15	Rotary control *[BRILLIANCE]* to adjust the brilliance of the sound.
16	*[START/STOP]* button to start or stop styles.
17	*[FILL A/FILL B]* button to insert fill bars into styles.
18	*[ACC VOL]* button to adjust the accompaniment volume.
19	*[TRANSPOSE +/–]* buttons to transpose note values.
20	*[TEMPO +/–]* buttons to increase or decrease the tempo.
21	*[RECORD]* button to call the recording function.
22	*[TRACK 1/SONG MELODY OFF]* button to select and mute track #1.
23	*[TRACK 2]* button to select track #2.
24	*[PLAY/STOP]* button to play or stop rehearsal songs.
25	*[METRO]* button to call the metronome function.
26	LED *'BEAT'* indicators.
27	LED display ■ *'VOICE'* ■ *'STYLE'* ■ *'SONG'*
28	*[+/YES]* and *[–/NO]* buttons to select values and parameters.
29	*[STYLE]* button to call styles.
30	*[VOICE]* button to select voices.

31	*[SONG]* button to call the *'SONG'* mode.
32	Direct selection buttons to call voices.
33	*[VOICE DEMO]* button to call rehearsal songs.
34	*[SCALE]* button to call historical tunings.
35	*[REVERB/CHORUS]* button to select various reverb and chorus effects.
36	*[DUAL]* button to call the dual mode.
37	*[SPLIT]* button to call the split mode.
38	*[TOUCH]* to adjust the touch sensitivity.
39	SD card control ■ *[PLAY/STOP]* button to start or stop the playback of SD card songs. ■ *[STORE]* button to store songs on the SD card.
40	SD card slot.

6 Connection options

Headphones

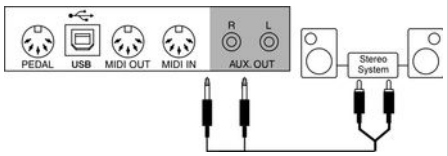


To the left beneath the keyboard you find the headphones outlets 1 and 2.

1. Connecting headphones (not supplied) to outlet 2 mutes the speakers.
2. Using outlet 1 maintains the sound output through the speakers.
3. You can connect 2 headphones, for example, in order to rehearse with your teacher without disturbing anyone.

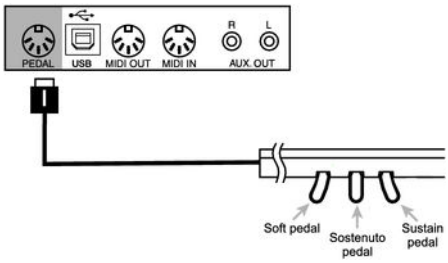
– *Never operate headphones at high volume as this can permanently damage your hearing.*
– *Before connecting the mains voltage or other devices to the piano turn the volume to minimum to avoid damage to the speakers.*

AUX output



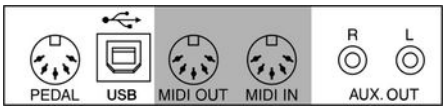
Use the AUX/OUT sockets to connect the digital piano to an amplifier, stereo device, mixing console or recording device. For stereo operation, connect these external audio devices to the AUX OUT L – R sockets. For mono operation, connect only one of the sockets. Connect the AUX/OUT sockets on the rear panel of the digital piano to the input of the respective audio device.

Pedals



Connect the plug of the pedal cable to the corresponding socket on the rear panel of the unit. Then you can use the soft, sostenuto and sustain pedal.

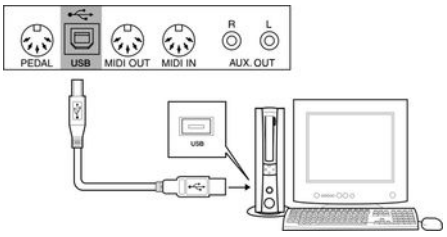
MIDI interface



MIDI stands for 'Musical Instrument Digital Interface' and represents a world wide standard for the communication of numerous electronic instruments and sound modules.

- **MIDI IN:** the device receives MIDI data from other devices through this port.
- **MIDI OUT:** MIDI data from the digital piano are sent to other MIDI devices through this port.

USB port

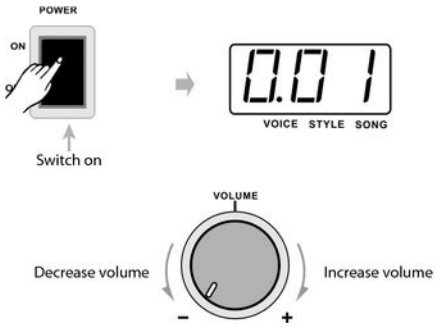


1. Connect a computer or other device with USB support.
2. The USB port is an integrated MIDI-USB adapter. For devices with USB cable, you can simply connect the MIDI / USB converter to the USB port and connect the MIDI IN or MIDI OUT cable to the piano. After the driver is installed and the installation is complete, you can select the USB audio device in Device menu of the software to transfer the MIDI data.

7 Switching on / off and basic operation

7.1 Switching the digital piano on

7.1.1 Switching on, automatic switchoff, volume control



1. Press the *[POWER]* switch. The LED display lights up.

Automatic switchoff

– *When the digital piano is not used, it will switch off automatically after 30 minutes. To switch it on again, press the POWER switch twice.*

Deactivating the automatic switchoff

– *To deactivate the automatic switchoff function, hold the first white key at the very left of the keyboard pressed while you switch on the digital piano.*

2. Turn the *[VOLUME]* control to adjust the desired volume.

3.

Keep both [+/YES] and [–/NO] buttons pressed while switching the device on to reset all parameters to factory default values. This will irretrievably erase all your settings.

– *If the display does not light up after switching the digital piano on, check the power supply.*
– *If you hear nothing from the speakers, the volume may be set to 'minimum'.*
– *Even if the digital piano is switched off using the [POWER] switch, it is not disconnected from the mains power supply. This is achieved only if you unplug the power cord.*

7.1.2 Setting the brilliance

Use the rotary control *[BRILLIANCE]* to adjust the sonic brilliance of the digital piano. Turn the knob clockwise for a brighter and more brilliant sound of the whole key range. Turn it counter-clockwise for a more mellow and darker sound.

Adjusting the brilliance may lead to a slight volume change.

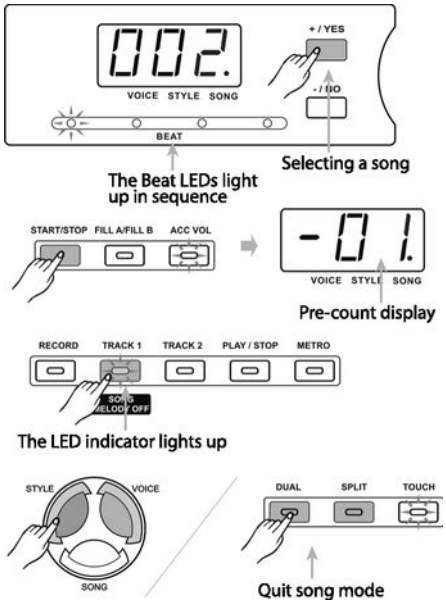
8 Functions

8.1 Rehearsal songs

8.1.1 Selecting, playing and quitting rehearsal songs

The digital piano offers 60 rehearsal songs for practising in total (see *Chapter 12 'Rehearsal song list' on page 34*).

1. Press the button *[SONG]* to enter the playback mode for rehearsal songs. The *'SONG'* indicator appears in the display and all rehearsal songs are played in an endless loop.
2. Press the button *[START/STOP]* to finish the currently played rehearsal song. This will not quit the mode for rehearsal song playback. If you press the *[START/STOP]* button again, this song will be repeated in an endless loop until you press the *[START/STOP]* button again.



3. **Selecting rehearsal songs**

   Use the *[+/YES]* or *[–/NO]* buttons to select the desired rehearsal song. If you select a new rehearsal song, the display will show its number first, then the *'BEAT'* LED indicators light up in sequence.

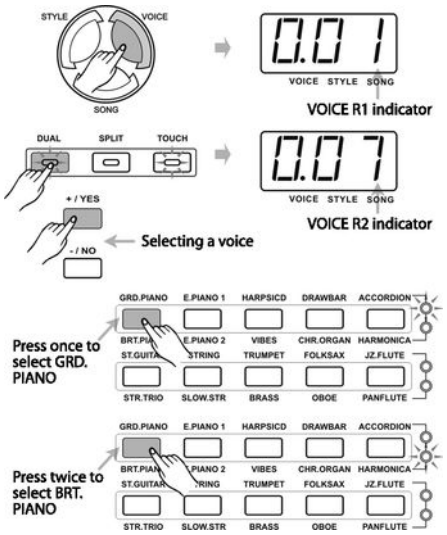
4. **Pre-count**

   After pressing the *[START/STOP]* button the display will pre-count one bar. The bar indicator starts with a negative value. The playback starts on '1'.

5. Press the button *[TRACK1/SONG MELODY OFF]* to start the self-learn function and to turn track 1 of the song on or off.

8.2 Voices and effects

8.2.1 Selecting voices



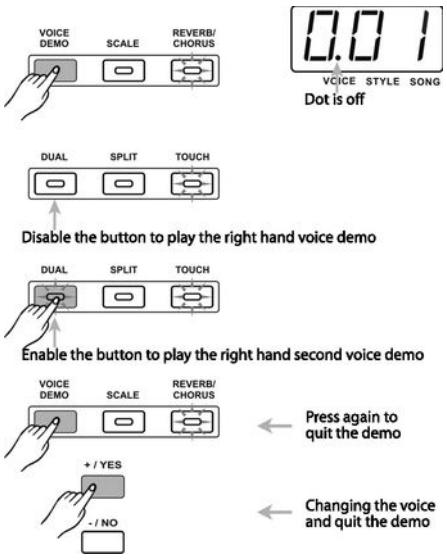
The digital piano offers 20 voices in total (see *Chapter 10 'Voice list' on page 32*).

1. On power up the *'VOICE'* indicator lights up in the display and the number *'001'* is displayed.
2. Press the button *[VOICE]* to call the voice selection mode. The display shows the number for the right hand voice (VOICE R1).
3. Press the button *[DUAL]* to call the dual mode. The display shows the number for the second right hand voice in dual mode (VOICE R2).
4. Use the *[+/YES]* or *[–/NO]* button or the *[VOICE]* direct selection buttons to select other voices.

Direct selection buttons

10 direct selection buttons are available to select the 20 voices. Press one of these buttons once to activate the voice labelled above the button. Press the button twice to activate the voice labelled below the button. Depending on whether the upper or lower voice is selected, the indicator to the right of the button lights up accordingly.

8.2.2 Demo songs

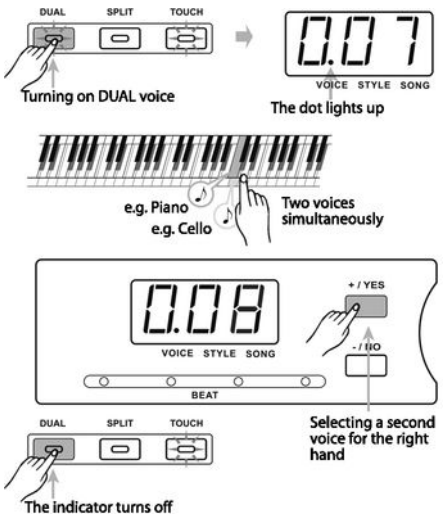


If you press the *[VOICE DEMO]* button a demo song for the respectively selected instrument voice is played.

1. Press the *[VOICE DEMO]* button in VOICE R1 mode to play the demo song for the right hand voice.
2. Press the *[VOICE DEMO]* button in dual mode to play the demo song for the second right hand voice.
3. Press the *[VOICE DEMO]* button again to quit the demo song playback mode.

If you change the voice during playback of a demo track, this mode is also cancelled.

8.2.3 Dual mode

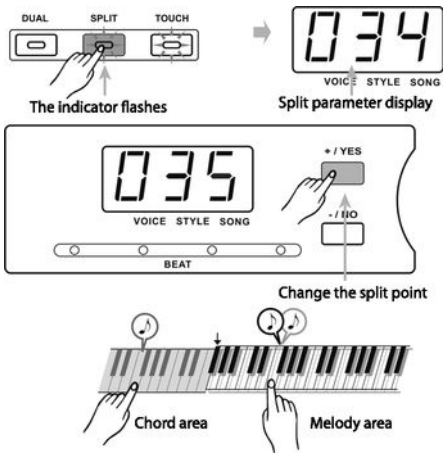


In dual mode, two voices sound simultaneously if you press a key in the right keyboard area.

1. Press the button *[DUAL]* to activate the dual mode. The *'VOICE'* indicator lights up in the display and the indicator of the *[DUAL]* button lights up. The number for the second voice of the right hand is also shown.
2. Press the button *[+/YES]* or *[–/NO]* or one of the direct selection buttons to select the desired voice. By default, the second voice is set to *'007'* (Strings).
3. Press the button *[DUAL]* again to quit the dual mode. The indicator turns off.

The setting for the second voice of the right hand only affects the keys to the right of the split point of the keyboard.

8.2.4 ACMP split point



With this function, you can split the piano keyboard into a melody and a chord (ACMP = accompaniment) area.

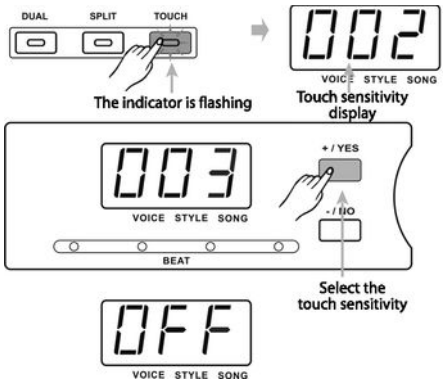
1. Press the button *[SPLIT]*. The display indicates the current split point parameter *'XXX'*.
2. Press the button *[+/YES]* or *[–/NO]* or the desired piano key to change the split point. The new split point is applied on closing this setting. '34' (F#3) is the default split point.

The new split point is part of the left keyboard area.

8.2.5 Touch sensitivity

This function lets you adjust the touch response of the keyboard in four steps.

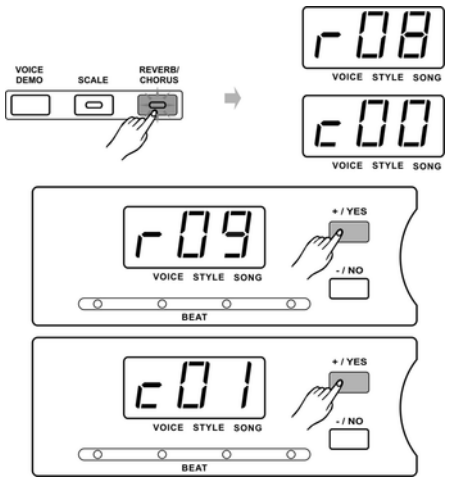
Parameter	Description
'OFF'	Touch sensitivity is off, very recommendable when playing the organ voice.
'001'	Soft In this setting, the volume is higher than usual even when playing with a soft touch.
'002'	Normal This setting corresponds to the usual touch response of a keyboard.
'003'	Hard In this setting, the volume is lower than usual even when playing with a hard touch.



1. Press the button *[TOUCH]*. The indicator of the button *[TOUCH]* and the setting *'002'* is briefly shown.
2. Press the *[TOUCH]* button repeatedly to select one of the settings.
3. When selecting *'OFF'*, the *'TOUCH'* indicator and the touch sensitivity are deactivated.

If you don't press a button for two seconds after calling the function setting, the menu will automatically quit.

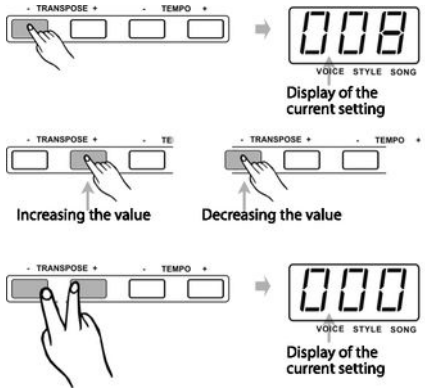
8.2.6 Reverb and chorus



With the functions for reverb and chorus, you can simulate acoustic effects under different environmental conditions.

1. The indicator of the button *[REVERB/CHORUS]* lights up on switching the piano on.
2. Press the button *[REVERB/CHORUS]* to activate the desired setting.
3. Repeatedly press the button *[REVERB/CHORUS]* to toggle between the setting modes for reverb and chorus.
4. The buttons *[+/YES]* and *[–/NO]* allow you to choose from 32 effects level. The chorus level *'00'* and reverb level *'08'* are preset by default.

8.2.7 Transposing

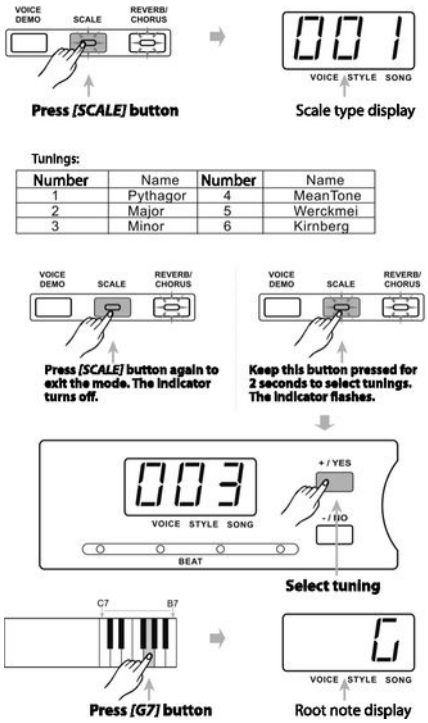


This function lets you adjust the keyboard pitch in 12 semitone steps up or down.

1. First, press the *[TRANSPOSE +]* or *[TRANSPOSE –]* button to open the TRANSPOSE menu. The display briefly shows the current setting.
2. Press one of these buttons again to shift the pitch up or down. The default value is *'000'*.
3. Press the buttons *[TRANSPOSE +]* and *[TRANSPOSE –]* simultaneously to restore the preset *'000'* (no transposing).

If you don't press a button for two seconds after opening the TRANSPOSE menu, it will automatically quit.

8.2.8 Historical tunings

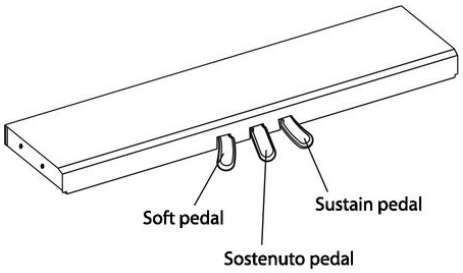


This feature allows you to experiment with different historical tunings, if you play certain music genres that are not composed according to the equal temperament tuning.

1. Press the button *[SCALE]* to enter the mode for historical tunings. The indicator of the button *[SCALE]* lights up. By default, '001' (Pythagoras) is set as historical tuning.
2. Besides the equal temperament tuning, the following six historical tunings are available: Pythagoras, perfect major, perfect minor, meantone, Werckmeister and Kirnberger.
3. Press the button *[SCALE]* again to quit the mode for historical tunings. The indicator turns off.
4. Keep the *[SCALE]* button pressed for two seconds in the mode for historical tunings to activate the selection function. The display will flash and the LED display shows the number.
5. Use the buttons *[+/YES]* or *[–/NO]* to select the historical tunings that are shown in the LED display. You set the root note with the piano keys C7 to B7.

For example, to select 'perfect minor' with the root note 'G', press the [+/YES] button until '003' appears briefly in the LED display. Then press the button [G7] to select this as root note. The LED display shows the root note 'G'.

8.2.9 Pedals



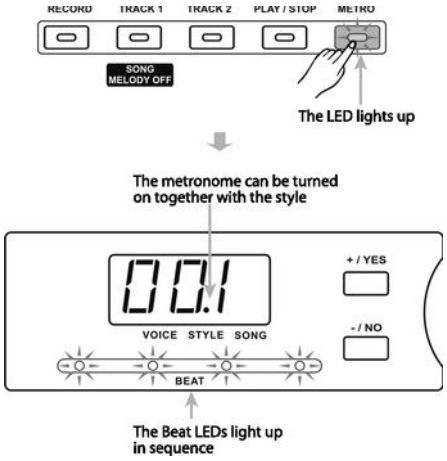
1. Sustain pedal:

   Using the Sustain pedal while playing lets the tones last - as if the keys were held.
2. Sostenuto pedal:

   When using the Sostenuto pedal while playing, only those keys are held that are played when stepping on the pedal. The pedal has no effect on keys played afterwards.
3. Soft pedal:

   When stepping on the Soft pedal while playing, the keys sound quieter.

8.3 Metronome

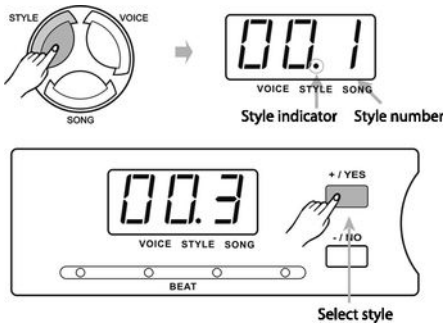


1. Press the button *[METRO]* to activate the metronome. Then you hear the click sound.
2. Press the button *[METRO]* again to turn the metronome off.
3. If the style mode is deactivated the beat follows the setting of the metronome after turning it on. If the style mode is activated the beat setting follows the current style.
4. The metronome can be activated together with the style. If the style plays at first, the metronome will be enabled with the next bar. On the other hand, the metronome responds at once to the first beat of the style.

8.4 Style operation

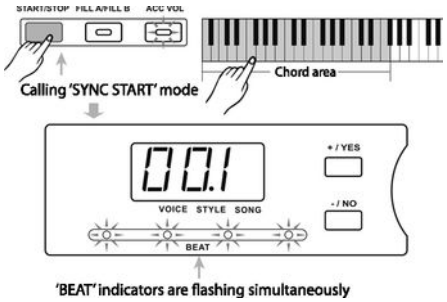
The digital piano comprises of 20 styles in total (see *Chapter 11 'Styles list' on page 33*).

8.4.1 Selecting a style



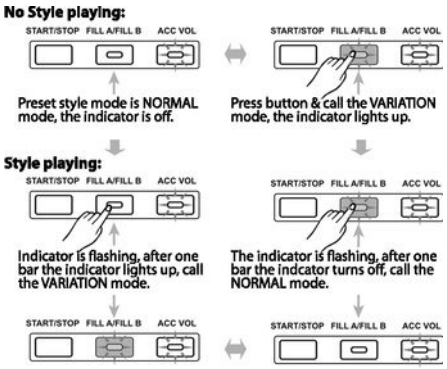
1. Press the button *[STYLE]* to select the STYLE mode. The dot next to *'STYLE'* appears in the display as well as the selected number.
2. Press the buttons *[+/YES]* or *[–/NO]* to select the desired style.

8.4.2 Starting and stopping a style



1. When style is not playing, you can press the *[START/STOP]* button to call the SYNC START mode. The *'BEAT'* indicators flash simultaneously. The style starts now when you press a key in the chord area.
2. Press the buttons *[+/YES]* or *[–/NO]* again to stop style playing.

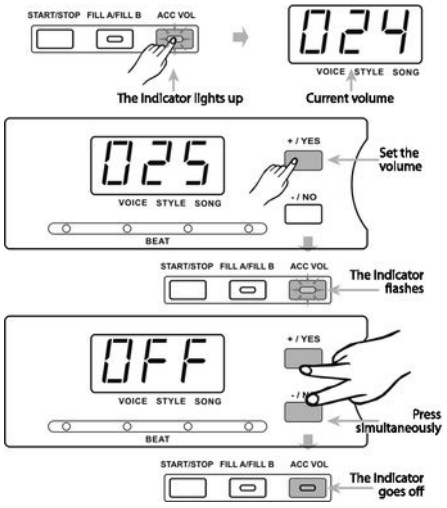
8.4.3 Fill A/B



Use this function to add fill bars.

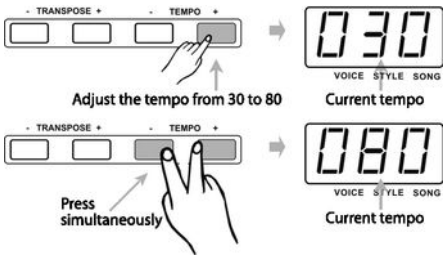
1. In NORMAL mode, press the *[FILL A/FILL B]* button to insert one fill bar. The indicator of the button *[FILL A/FILL B]* is flashing. When the bar has ended the digital piano returns to VARIATION mode.
2. In VARIATION mode, press the *[FILL A/FILL B]* button to insert one fill bar. The indicator of the button *[FILL A/FILL B]* is flashing. When the bar has ended the piano returns to NORMAL mode.
3. When switching on, the digital piano is set to NORMAL mode by default.

8.4.4 Accompaniment volume



1. Press the button *[ACC VOL]* to adjust the accompaniment volume in style playing. The display briefly shows the current accompaniment volume.
2. Use the buttons *[+/YES]* or *[–/NO]* to set the volume in a range of 0 to 31. The default value is 24. The indicator of the *[ACC VOL]* button flashes simultaneously.
3. If you press the buttons *[+/YES]* and *[–/NO]* in ACC VOL mode simultaneously the accompaniment track will be muted.
4. Press the buttons *[+/YES]* and *[–/NO]* in ACC VOL mode simultaneously again to unmute the accompaniment track.

8.4.5 Tempo



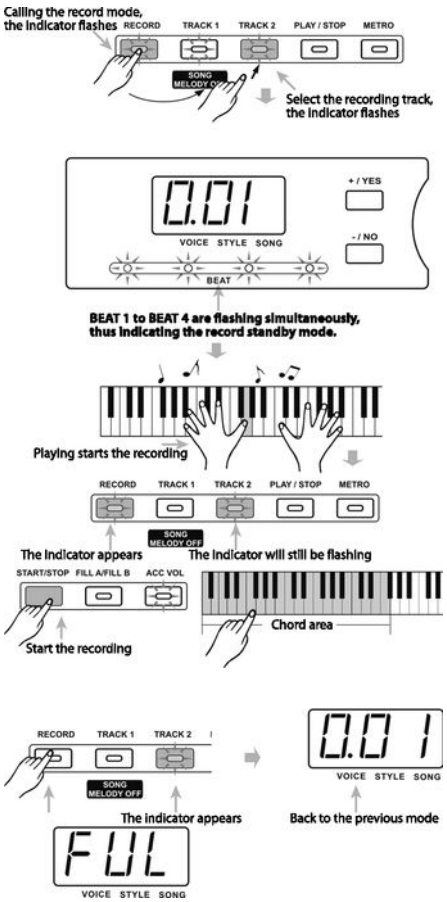
1. Press the buttons *[TEMPO+]*/*[TEMPO–]* to adjust the tempo within a range of 30 to 280 bpm.
2. Press the buttons *[TEMPO+]*/*[TEMPO–]* simultaneously to reset the tempo to the preset default value.

8.5 Recording and playback

With this digital piano, you can record your playing on two tracks.

– *The recorded data won't be deleted when you turn off the digital piano.*

8.5.1 Recording



1. Recording standby

Press the button *[RECORD]* to enable the recording mode. The indicator of the button *[REC]* lights up. *'BEAT 1'* to *'BEAT 4'* start flashing synchronously, thus indicating the recording standby mode. At the same time an empty track is automatically selected for recording and the corresponding track indicator of the button *[TRACK 1]* or *[TRACK 2]* is flashing.

The selection order is *[TRACK 1]*, *[TRACK 2]*. If no unused track is available, *[TRACK 1]* is selected and the previous recording will be overwritten. You can also press the button *[TRACK 1]* or *[TRACK 2]* and select the track to be recorded to directly.

2. Start recording

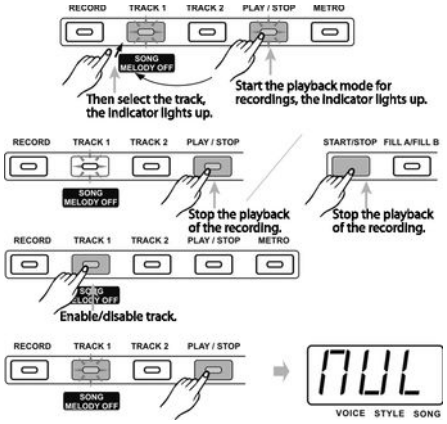
When *'BEAT 1'* to *'BEAT 4'* are flashing in the display, press the *[START/STOP]* button or one of the piano keys to start the recording.

If you start recording, any existing data on the selected track will be deleted.

3. Stop recording

Press the *[RECORD]* button again to stop the recording. The recording stops automatically when the memory is full. In this case *'FUL'* appears in the display.

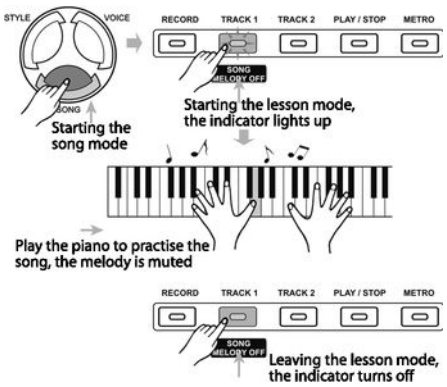
8.5.1.1 Playing the recording



1. First, press the *[PLAY/STOP]* to play recorded data. Choose one or both tracks for playback, the indicator lights accordingly.
2. Press the button *[PLAY/STOP]* again or press *[START/STOP]* to stop the playback.
3. During playback, you can press the buttons *[TRACK 1/SONG MELODY OFF]* or *[TRACK 2]* to turn the related track on or off.

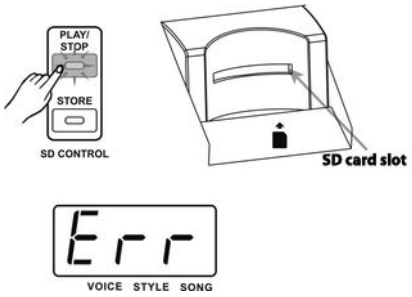
If no record exists and you press the [PLAY/STOP] button, the display briefly shows 'NUL'.

8.6 Lesson mode



1. Press the *[TRACK 1/SONG MELODY OFF]* button in SONG mode to call the Lesson mode.
2. If you press the button *[TRACK 1/SONG MELODY OFF]* the indicator of the button *[TRACK 1/SONG MELODY OFF]* lights up and the melody of the song is muted. Now you can play the melody yourself and thus practise the song.
3. Press the button *[TRACK 1/SONG MELODY OFF]* again to unmute the melody. The indicator for the *[TRACK 1/SONG MELODY OFF]* button turns off.

8.7 SD memory card



The digital piano offers a card slot for SD memory cards with a capacity of 16 MB to 2 GB that are formatted for the FAT 16/32 file system.

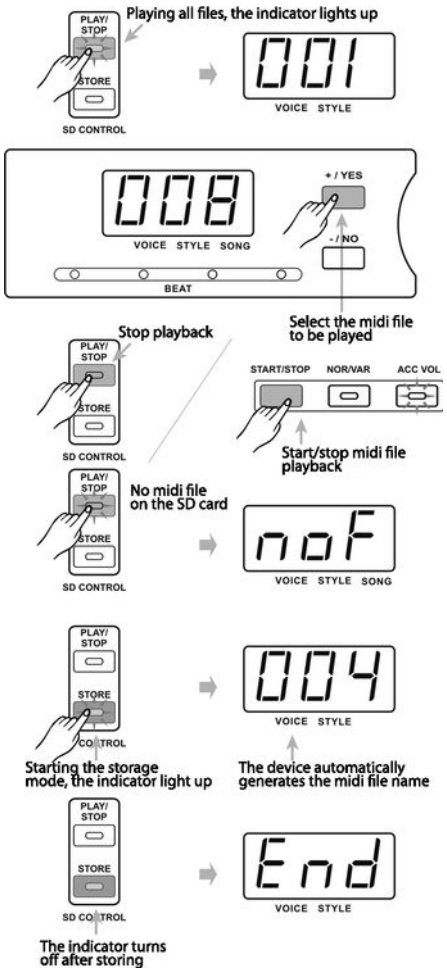
Press one of the two buttons *[PLAY/STOP]* or *[STORE]* in the *'SD CONTROL'* area to call the respective function mode (Playback/Stop or Storing). If no card is inserted, *'ERR'* appears in the display for about two seconds.

8.7.1 Functions

- Press the *[PLAY/STOP]* button to play MIDI files located in the root directory of the SD card. Formats 0 and 1 are supported.
- Press the *[STORE]* button to save recorded data as MIDI file in the root directory, that can be played by a MIDI player.

In SD mode, the digital piano responds to the buttons *[VOICE]*, *[STYLE]* and *[SONG]* only.

8.7.2 Buttons in the SD CONTROL area



The digital piano stores and plays MIDI files in the root directory.

- *[PLAY/STOP]*

  When the digital piano is switched on, press the *[PLAY/STOP]* button to play all files in the root directory of the SD card. The indicator of the button *[PLAY/STOP]* lights up.

  In SD mode, you can select the MIDI files using the *[+/YES]* or *[–/No]* buttons. By default, *'001'* is the number of the first file.

  Press the *[PLAY/STOP]* or *[START/STOP]* button to stop the MIDI file playback. Press the *[START/STOP]* button again to play the file repeatedly.

  If there is no MIDI file on the SD card and you press the button *[PLAY/STOP]*, *'noF'* appears for two seconds in the LED display. Then, the digital piano returns to the previous mode.

- *[STORE]*

  When the digital piano is switched on, press the *[STORE]* button to activate the storage mode. The indicator of the button *[STORE]* lights up.

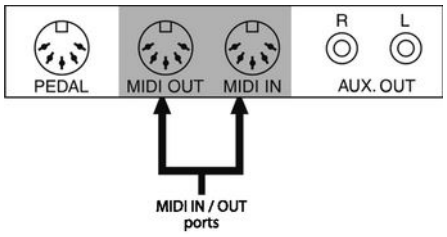
  The recorded data can be saved as a MIDI file in the root directory of the SD card. The MIDI file name is generated by the system to prevent double naming.

  If the SD card is full, the storing is cancelled automatically and the LED display shows *'FUL'*. The storage mode is exited and the digital piano returns to the previous mode.

  After saving, the indicator of the *[STORE]* button goes off. The LED display briefly shows *'End'* and thus indicates the successful completion of the saving.

8.8 MIDI functions

What is MIDI?



1. MIDI stands for 'Musical Instrument Digital Interface' and is the standard interface for connecting musical instruments and computers.
2. The digital piano is equipped with a standard MIDI interface providing a MIDI IN and OUT.
3. You can connect the digital piano to a computer or other MIDI devices via this interface.

MIDI connection

1. **Notes on connection**

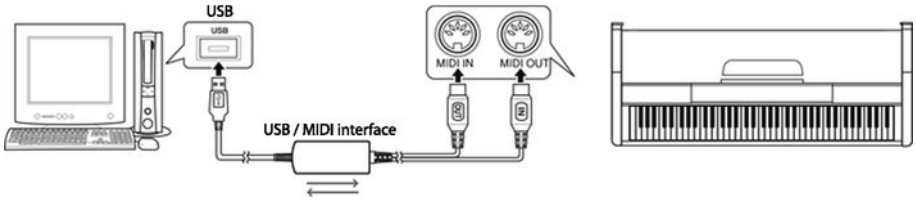
   With MIDI connections, the device that controls other devices is called 'master'. A device that is controlled via MIDI is called 'slave'. The MIDI OUT of the master is connected to the MIDI IN of the slave. You can not connect the MIDI OUT of a device to the MIDI IN of the same unit.

2. **MIDI IN**

   Here you can connect the MIDI OUT port of another device that, for example, should use the tone generator of the digital piano.

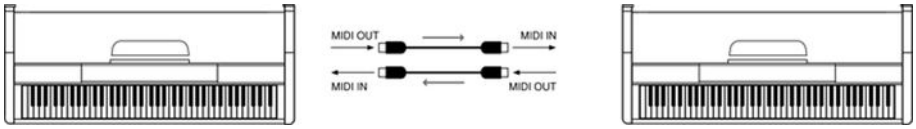
   MIDI OUT

   Here you can connect the MIDI IN port of another device that you want to control via the digital piano. If you play a note or send a program change command, the connected device will respond accordingly.



3. **Connection example**

   Connect the MIDI interface to the computer.



Connect further devices via the MIDI interface.

MIDI applications

1. The digital piano can control other equipment or electronic instruments.
2. You can use other devices to control the digital piano.
3. The digital piano can play MIDI files from a computer.

9 Cleaning

Only clean the device with a soft, dry cloth. More stubborn stains may be removed with a slightly damp cloth. Never use cleaners such as alcohol or thinner. Do not place vinyl items on the device, as this can cause discolouration or residues on the unit.

10 Voice list

No.	Voice		Key labelling
001	Acoustic Grand Piano		GRD.PIANO
002	Epiano1		E.PIANO1
003	Harpsichord		HARPSICD
004	Hammond Organ		DRAWBAR
005	Accordion		ACORDION
006	Steel Guitar		ST.GUITAR
007	String		STRING
008	Trumpet		TRUMPET
009	Folk Sax		FOLK SAX
010	Jazz Flute		JZ.FLUTE
011	Bright Acoustic Piano		BRT.PIANO
012	Epiano2		E.PIANO2
013	Vibes		VIBES
014	Church Organ		CHR.ORGAN
015	Harmonica		HAMONICA
016	STR.TRIO		STR.TRIO
017	Slow String		SLOW.STR
018	Brass Section		BRASS
019	Oboe		OBOE
020	Pan Flute		PANFLUTE

11 Styles list

No.	Style
001	Pianist
002	8 Beat
003	16 Beat
004	Ballad
005	Pop Piano
006	Boogie
007	Slow Rock
008	Swing
009	Jazz
010	Jazz Waltz
011	Swing Fox
012	Shuffle
013	Twist
014	Country Ballad
015	Bossa Nova
016	Latin
017	March
018	6/8 March
019	Waltz
020	Slow Waltz

12 Rehearsal song list

No.	Title
Piano	
001	For Alice
002	Habanera
003	Four Little Swans
004	Moseta Dance
005	Germanic Dance
006	Turkish March
007	March
008	Away In A Manger
009	Chopsticks
010	2-Part Invention #13 In A Minor. B.W.lii
Folk & Country	
011	Country
012	Jambalaya
013	Susanna
014	Bridge
015	Battle Hymne Of The Republic
016	The Old Gray Mare
017	American Patrol
018	In The Rain
019	Sippin' Cider Through A Straw
020	Are You Lonesome Tonight
Golden & Pop	
021	Only You
022	End Of The World
023	House Of Rising Sun
024	The Blue-Bells Of Scotland
025	Over The Rainbow
026	Beautiful Dreamer
027	Edelweiss

No.	Title
028	O Sole Mio
029	Silent Night
030	Ave Maria
031	Five Hundred Miles
032	Happy New Year
033	It's Beginning To Look A Lot Like Christmas
034	Jeanie With The Light Brown Hair
035	My Bonnie
036	Song Of The Pearlfisher
037	The Stage Coach
038	Entertainer
039	Annie Laurie
040	Killing Me Softly With His Song
041	Last Rose Of Summer
042	The Old King Cole
Jazz & Fusion	
043	Maple Leaf Rag
044	June Samba
045	Funk
046	I Can.....
047	Sea Shore
048	Guitar&Saxphone
049	The Hip Hop's Night
050	Blue Lunch
051	Cobweb
052	Wine
053	Jazz Old Man
054	Dark Eyes
055	Carlos
056	Sad

No.	Title		No.	Title
057	The Jazz		059	Give You A Rose
Chinese			060	Flowing Rill
058	Sout Mud Bay			

13 MIDI implementation chart

Function		Sent	Received	Remarks
Basic Channel	Default	1	ALL	
	Changed	1-16	1-16	
Mode	Default	No	Mode 3	
	Messages	No	Mode 3	
	Altered	********	No	
Note Number		0 – 127	0 – 127	
	True voice	********	0 – 127	
Velocity Note	Note ON	Yes, 9nH, v = 1 – 127	Yes, 9nH, v = 1 – 127	
	Note OFF	No, 9nH, v = 0	Yes, 9nH, v = 0 or 8nH, v = 0 – 127	
After Touch	Keys	No	No	
	Channels	No	No	
Pitch Bend		No	Yes	
Control Change	0	Yes	Yes	Bank Select
	1	No	Yes	Modulation
	5	No	Yes	Portamento Time
	6	Yes	Yes	Data Entry
	7	Yes	Yes	Volume
	10	No	Yes	Pan
	11	No	Yes	Expression
	64	Yes	Yes	Sustain Pedal
	65	No	Yes	Portamento ON/OFF
	66	Yes	Yes	Sostenuto Pedal
	67	Yes	Yes	Soft Pedal
	80	No	Yes	Reverb Program
	81	No	Yes	Chorus Program
	91	Yes	Yes	Reverb Level
	93	Yes	Yes	Chorus Level
	120	No	Yes	All Sound Off
	121	No	Yes	Reset All Controllers
	123	Yes	Yes	All Notes Off

Function		Sent	Received	Remarks
Program Change	True #	Yes ********	Yes 0 – 127	
System Exclusive		No	Yes	
System Common	Song Position Pointer	No	No	
	Song Select	No	No	
	Tune Request	No	No	
System Real Time	Clock	No	No	
	Commands	No *1	No *1	
Aux Messages	Local ON/OFF	No	Yes	
	ALL Notes OFF	Yes	Yes	
	Active Sensing	Yes	No	
	System Reset	No	Yes	
Notes:	*1 When the accompaniment starts, an FAH message is transmitted. When the accompaniment stops, an FCH message is transmitted. When an FAH message is received, the accompaniment starts. When an FCH message is received, the accompaniment stops.			

MIDI channel mode

	POLY	MONO ON
OMNI ON	Mode 1	Mode 2
OMNI OFF	Mode 3	Mode 4

14 Technical specifications

Display	LED display
Keyboard	88 keys, touch velocity in 3 steps
Polyphony	64-voiced
Voices	20
Styles	20
Rehearsal songs	60
Demo songs	20
Operating elements	*[POWER], [VOLUME], [REVERB CHORUS], [DUAL TOUCH], [RECORD], [TRACK 1] [TRACK 2], [PLAY/STOP], [SPLIT], [METRO],[TRANSPOSE +/–], [SD CONTROL], [VOICE DEMO], [SONG], [VOICE], [STYLE], [BRILLIANCE], [SCALE], [START/STOP], [ACC VOL], [FILL A/FILL B]*
Pedals	Soft, sostenuto, sustain
Connections	Voltage supply AC 230 V ~, 2 × headphones (1/4" phone sockets), AUX OUT (L/R), MIDI IN, MIDI OUT
Speakers	2 × 25 W, 8 Ω
Operating supply voltage	AC 230 V ~
Dimensions (W × D × H)	1380 mm × 520 mm × 830 mm
Weight	62.5 kg

15 Protecting the environment

Disposal of the packaging material

For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE). Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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